

SYSTEM AND METHOD FOR CONTROL PARAMETER RE- CENTERING A CONTROLLED PHASE LOCK LOOP SYSTEM

Abstract

A re-centering system (116) for re-centering the control parameter of a phase lock loop (PLL) (112). The re-centering system includes sources (140) for obtaining/storing operating parameters, such as environmental data (184), setup data (188), and other knowns data (192). At least one state machine (132) utilizes the operating parameters to adjust the topology of the PLL so as to achieve a desirable topology for each target output frequency (18) that substantially centers the performance envelope(s) (120, 124, 128) to a desired pre-selected value of the control parameter. The re-centering system also includes a comparator (136) for comparing measured values of the control parameter to a pre-selected value. The state machine utilizes the output of the comparator to substantially center the corresponding performance envelope at the pre-selected value.